

Wasim Ansari

AI/ML Solutions Engineer | Generative AI Developer | IITM Alumnus

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Indian

Oehradun, India

in Linkedin Profile

GitHub

kaggle Kaggle

Portfolio

• Publications

SUMMARY

AI/ML Engineer with legal, retail and global business expertise, delivering production-ready Generative AI and Machine Learning solutions. Experienced in legal RAG assistants, price prediction systems, and LLM-powered interview simulators using Mistral, LangChain, Streamlit, Docker, and GCP. IIT Madras-trained, with 7+ years of cross-domain insight to design scalable, business-aligned AI systems.

PROJECTS

DocuDroid - AI Document Analysis Bot (LLM + Vector Search for Smart Document QA)

- Summary: Intelligent document analysis and chat platform that leverages Mistral AI and in-memory vector storage for real-time RAG implementation. Process PDFs and web content with natural language interactions, maintaining conversation context for more relevant responses.
- Key Features: Python, FastAPI, LangChain, Mistral AI, InMemoryVectorStore, Azure Container Apps.
- Deployed App Link: https://docudroid.lemonbay-750e7928.centralindia.azurecontainerapps.io/

Flux - Text-to-Image Generator (Powered by Hugging Face Transformers & HF Token Inference)

- Summary: A powerful image generation tool leveraging state-of-the-art AI models to create stunning, customizable images. Built with Hugging Face's Diffusers library, it offers an intuitive interface for generating high-quality images from text descriptions.
- Key Features: Python, azurewebsites, Hugging Face Diffusers, PIL, Docker.
- Deployed App: https://flux-image-generator-bdcdcphnhmbhg6et.centralindia-01.azurewebsites.net/

Jurisol - Al Legal Assistant (LLM based RAG application)

- **Summary:** Engineered an intelligent legal search assistant focusing on Indian law using Retrieval-Augmented Generation (RAG), Qdrant vector database, and Mistral LLM. Supports PDF/text ingestion, summarization, and precise legal document search.
- Keywords: AI Tools, RAG, Vector Database, LangGraph, FastAPI, Mistral LLM, Document Summarization.
- Deployed App Link: https://jurisol-legal-assistant-rag.onrender.com/

Mogambo Voice AI Scheduler (Voice enabled AI Agent)

- **Summary:** Built a privacy-first AI calendar assistant with voice and text inputs, powered by FastAPI, LangGraph, LangChain, Google Calendar API, SpeechRecognition, and gTTS. Implements context-aware scheduling and clarification workflows for seamless event management.
- Keywords: Conversational AI, Google Calendar Automation, LangGraph, Google OAuth, TTS, STT, FastAPI.
- Deployed App Link: https://mogambo-ai-scheduler.streamlit.app

RudeBot – Sassy Chatbot built for fun (Prompt Engineered Chatbot) 🛭

- Summary: Developed a conversational AI chatbot using Python, Mistral AI, LangGraph, and Streamlit with Docker deployment. Features include unfiltered humorous responses, persistent memory, and real-time LLM streaming for an engaging user experience.
- Keywords: AI Chatbot, Generative AI, LLM, LangChain, LangGraph, Python, Streamlit, Docker, Real-time AI.
- Deployed App Link: https://rudebot-mistral.streamlit.app/

BikeValuePro (Machine Learning Model with 94.9% Accuracy)

- **Summary:** Developed a predictive analytics model for used bike prices using Scikit-learn, XGBoost, and Pandas. Includes smart Streamlit UI, model pipeline (preprocessor.pkl), and deployment-ready architecture. Display personalized suggestion based on predicted price.
- Keywords: Machine Learning, Predictive Analytics, XGBoost, Scikit-learn, Python, Data Wrangling, Flask.
- Deployed App link: https://usedbike-price-predictor-mlmodel.onrender.com/

Matcy - Text Similarity Detector (NLP service developed for Quora Duplicate Questions Problem) 🗵

- Summary: Matchy is an AI-powered application for detecting similarity between pairs of text using fuzzy logic and semantic analysis (Word2Vec). Optimized for real-world text data like Quora question pairs, it provides duplicate detection and confidence scores in a modern, responsive UI.
- Keywords: Python, Flask, XGBoost, Word2Vec, Docker, HTML + CSS, fuzzywuzzy, Scikit-Learn
- Deployed App link: https://text-similarity-detector.onrender.com/

Assignment Solver (Code Generating and Self Executing AI Agent)

- Summary: Built an AI agent to process ZIP, CSV, PDF, Excel, and JSON files, generate Python code, and run it in a sandboxed environment using Mistral API and FastAPI. Designed for academic and business automation tasks. This was developed as an IITM college project securing A+ Grade.
- Keywords: AI Agent, Code Generation, LLM, File Processing, FastAPI, LangChain, Mistral, Automation.
- Deployed App link: https://assignment-solving-agent.onrender.com/

My Photo Journal (Cloud-Native Blog App on Google Cloud Run) 🗵

- **Summary:** Enables users to publish and view image-based blog posts in real time via a fully serverless, containerized deployment on GCP. Integrated Cloud SQL for structured content, Cloud Storage for real-time image handling; deployed using GCP's scalable infrastructure.
- Keywords: Flask, Docker, Google Cloud Run, Cloud SQL, Cloud Storage.
- Deployed App link: https://blog-app-699175796072.asia-south2.run.app/

TOP SKILLS

Machine Learning & Data Analysis

- Supervised & Unsupervised Models (XGBoost, Random Forest, SVM, Linear Regression)
- Data Analysis & Visualization (Pandas, NumPy, Matplotlib, Seaborn, Metabase, OpenRefine)
- Scikit-learn for End-to-End ML Pipelines

Data Engineering & Processing

- Data Wrangling, Feature Engineering, Cleaning
- Vector Databases (Chroma, FAISS, Qdrant)
- Workflow Orchestration & Automation (n8n)

Cloud & DevOps Platforms

- Google Cloud (Cloud Run, Cloud SQL, Cloud Storage)
- Azure (Container Apps, App Service / Web Apps)
- Vercel Lightweight Deployments, GitHub Pages

Deep Learning & GenAI

- Neural Networks (CNN, RNN, Transfer Learning)
- Frameworks: TensorFlow, Keras, PyTorch
- LLMs & GenAI (Mistral, LangChain, LangGraph, Hugging Face, RAG, Prompt Engineering, LLM Fine-tuning)

MLOps & Model Deployment

- Model Serving (Docker, FastAPI, Flask, Streamlit)
- Packaging & Serialization (.pkl/.h5), REST APIs
- CI/CD & Versioning (Git, GitHub Actions)

Monitoring & Observability

- Model Performance Tracking (Evidently AI, Grafana)
- Drift Detection & Automated Retraining
- Building Feedback Loops for Continuous Learning

EXPERIENCE

09/2024 – Present Dehradun, India

AI/ML Engineer & Solutions Developer

Freelance/Independent Projects

- Pursuing IIT Madras Diploma in Data Science while rigorously self-learning advanced topics, with a strong interest in Transformers Architecture, Reinforcement Learning, and Cloud Services.
- Designed and deployed multiple **end-to-end AI/ML applications**, spanning predictive modeling, conversational AI, legal research assistants, and voice-enabled scheduling agents showcasing skills in **XGBoost**, **LLMs**, **RAG**, **LangChain/LangGraph**, and **vector databases**.
- Delivered production-grade deployments using **Docker, FastAPI, Flask, Streamlit, and Google Cloud/Azure**, emphasizing scalability, UI/UX, and security.
- Achieved Top 5% Kaggle ranking in a cybersecurity detection challenge, highlighting strong applied ML skills and problem-solving mindset.
- Actively building a diverse project portfolio to demonstrate adaptability, technical depth, and eagerness to grow into real-world AI/ML challenges.

12/2022 - 09/2023 Kingston Upon Hull,

Retail Sales Manager

Booze Blitz - Ahaan Limited

- Led compliance and strategic sales planning that boosted revenue by 20%.
- Inspired ML-based solutions for pricing, demand forecasting and **retail analytics**.

09/2021 – 11/2022 Dehradun, India

Import Export Entrepreneur

Ahlan Exports

- Managed international B2B logistics, compliance and digital marketing funnels.
- Experience translates into AI interest in supply chain modeling and optimization.

02/2015 – 01/2020 Dubai, UAE

Real Estate Consultant

FAHZAM Properties

- Managed property portfolios & client legal clearances. Certified RERA Broker.
- Insights now inform AI projects in real estate valuation and docs automation.

09/2013 – 04/2014 Hyderabad, India

Legal Associate

QuisLex Legal Services

- Reviewed legal documentation & case summaries with accuracy and compliance.
- Inspired the need for automation in document review and compliance QA via AI.

12/2012 – 07/2013 Pune, India

Research Associate-Citator

Mindcrest India

- Classified legal cases with 90%+ accuracy in half the average processing time.
- Domain insights now power AI-based legal summarizers and DB management.

EDUCATION

09/2024

Indian Institute of Technology, Madras 🛭

Diploma in Data Science

- Pursuing Coursework: ML, Linear Algebra, Statistics, Business Analytics, Tools for Data Science, Deep Learning, Gen AI, Capstone Projects. Grade: CGPA 8+
- Projects: System Threat Forecaster (Top 5% in Kaggle), Assignment AI Agent

2007 - 2012

Savitribai Phule Pune University 🛭

Bachelor of Laws (5 years integrated)

- Coursework: Constitution, Civil and Criminal Laws, Procedural Laws, IPR, Banking Law, Environment Law, Drafting. Grade: Higher Secondary Class
- Achievements: Participant of 1st Student Parliament, Moot Court Competitions.



Urdu — Native or Bilingual • Hindi — Native or Bilingual • English — IELTS 7 Band

CERTIFICATIONS

Understanding Google Cloud Platform 🗵 🄸 Azure Essentials 🗷 🔸 Dubai RERA Certification 🗈

□ THOUGHTS AND PUBLICATIONS

Hallucinations in AI Legal Research: A Lawyer's Worst Nightmare?

Authored an article on AI hallucinations in legal research, highlighting real-world risks of fabricated case law and the need for prompt precision. Advocated safe AI adoption in law through domain-specific models and ethical safeguards.

Adapting Export Strategies for Indian Handmade Carpets: A Response to Rising Global Tariffs 🗵

Discover a data-driven export strategy for India's handmade carpet industry navigating rising U.S. tariffs with advanced Python-led trade analytics, market opportunity scoring, and competitive benchmarking.